

STECHOE, A.

STECTOR, A. Limed cements and the durability of concretes. p. 617

10, 10, 1956

INDUSTRIA CO S'RUCTILLOR SI A MATERIALMLOR DE CO STRUCTII

TECH: OLC H

RUMANIA

So: East Muropean Accession, Vol. 6, Mo. 5, 1957

STEUFUE, A.

Present research on the technology of hydrotechnic concrete in Russia. p. 85. (Higrotennica, Vol.2, No. 2, Mar/Apr. 1957. bucuresti, Rumania)

Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl. SO:

STEOPOE, Alex.

H-13d Chemical Products FULLANIA / Chemical Technology. C APPROVED FOR REFEASE: A08/25/2000 ^CCTA-RDP86-00513R001653120013-9"

Binding Materials. Concrete. Materials. Concrete and Other Silicate

Building Materials.

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 78494.

: Steopoe, Alexaniru. Author

: Bucharost Polytochnical Institute. Inst

: Concerning the Effect of Active and Inert Additions on the Properties of Cement Paste, and Titla Upon the Effect of the Properties of Solidified

Cement Faste on the Technical Properties of Con-

crete.

Orig Pub: Bul. Inst. politehn. Bucuresti, 1957, 19, No 1-2,

109-114.

Abstract: Review. Bibliography with 11 titles.

Card 1/1

STEUPEL, A.

The bahavior of puzzolana and its influence on the structure of hardened binding materials and the technical properties of concretes. p.28.

HTDROGAMNICA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Momina) Bucuresti, Rumania Vol. 4, no.1, Jan. 1959.

Monthly list of East European Accessions (REAI) IC, Vol. 8, no. 7, July 1959. Uncl.

STEOPOE, I.; SAVULESCU, A.; PLOAIE, P.

Changes of the cell kernel in the polyhedrosis of the larvae of Leucoma (Stilpnotia) salicis L. Rev biol 6 no.4:411-424 '61.

1. Naturwissenschaftliche Fakultät der Universität "C. I. Parhon" und Institut für Biologie "Traian Savulescu" der Akademie der Rumanischen Volksrepublik. 2. Korrespondierendes Mitglied der Akademie der Rumanischen Volksrepublik, Rédacteur en chef, "Revue de biologie" (for Savulescu).

STEOPOE, I.; NEDELEA, M.; DRAGOTOIU, C.

Existence of the undulating membranes in the blastomeres of Cyprimus carpio. Rev biol 7 no.2:215-219 *62.

1. Faculté des Sciences naturelles de l'Université de Bucarest, Chaire d'anatomie.

MACOVSCHI, E., acad.; STEOPOE, I.; CEAUSESCU, S.

STREET, STREET,

Studies on the structure of coacervates by cytological method. Studii cerc biochimie 5 no.3:323-329 '62.

1. Institutul de biochimie al Academiei R.P.R. si Catedrele de anatomiehistologie-embriologie si de biochimie ale Universitatii din Bucuresti. 2. Membru al Comitetului de redactie si redactor responsabil, "Studii si cercetari de biochimie" (for Macovschi).

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653120013-9

STEP, Ch. ya.

AUTHOR:

Step, Kh. Ya., Engineer

67-6-5/23

TITLE:

Adsorption Blocks for the Drying of Air (Bloki adsorbtsionnoy

osushki vozdukha)

PERIODICAL:

Kislorod, 1957,

Nr 6, pp. 25-25 (USSR)

Received: April 7, 1958

ABSTRACT:

In this paper a new construction of adsorption blocks for the drying of air at high pressure is recommended. The blocks are produced in two types according to their range of efficiency:

1.) For the drying of 15 and 30 m³ p.h. of compressed air at a pressure of 220 at. Its efficiency is 15 nm³/h at (1 at.) to 3300 nm³ (at 220 at.). The second type of blocks is intended for an efficiency of 30-6600 nm³/h. For the heating of the nitrogen which is used for regeneration of the sorbents, heaters of the type 3T are used. Automatic control of the electric heaters is brought about by means of the electrocontact thermometers "3KT-1" and "3KT-2", which are produced by the "Manometr" works. In order to avoid a burning through of the electric heaters when switching off the current of nitrogen, a safety device is provided in the diaphragm of the nitrogen feed which, in a case of emergency,

Card 1/2

Adsorption Blocks for the Drying of Air

67-6-5/23

cuts out the electric furnace automatically. There is 1 table.

AVAILABLE:

Library of Congress

Card 2/2

ABSTRACT: The BR-IM assembly, which can produce samples of commercially and technologically pure oxygen (99.5%), pure nitrogen (0.02% 02) or krypton-xenon concentrate from dry, CO2-free air, differs from earlier models in the cutfitting of the auxiliary tank. These and other differences are minutely described by tabular data and scale drawings. The CO2 crystals left are removed by 280 metallo-ceramic filter-adsorbers. The machine and more critical inner portions have double-walled, insulating housings of steel 3. Piping between various enclosed sections is of insulated metal. Stress points are doubly reinforced. Controls are implemented by

Card 1/2

L 24474-65

ACCESSION NR: AT5000852

manometers, thermometers with an aggregate range from -200 to 300C, type MN5114

"APPROVED FOR RELEASE: 08/25/2000 C

CIA-RDP86-00513R001653120013-9

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel skiy institut kislorodnogo mashinostroyeniya (All-union oxygen machine building scientific research institute)

SUEMITTED: 00

ENCL: 00

SUB CODE: GC, IE

NO REF SOV: 002

OTHER: 000

Card 2/2

NIKITIN, Value, Inches PRECE, S.C., Inches STYF, Kh.Ya., Inches

The BR-IM air separation unit. Trudy VNIIKIMASH no.8:3-25 '64. (MIRA 17:10)

STEP, M.

Trends in the utilization of offal. p. 428 Vol. 9, no. 10, Oct. 1955 PRZEMYSL SPOZYWCZY

Warszawa

SOURCE: East European Accessions List (EZAL) IC. Vol. 5, no. 3, Mar. 1956

RULEV, F.A.; MEMKIN, B.M.; CISAMIVSKIY, M.Ye.; STEP, N.Ye.; DHOMERBIN, V.A.

Thermal decontamination of the wastes of chemical industries with consecutive utilization of the waste heat. Khim. prom. 41 no.5:380-383 My '65. (MIRA 18:6)

compds. up to 200° (mastemp.), steam distg. the alkalized residue, neutralizing the distillate with 40.5 g. 48 % fills (70% yield of bases), treating the solar of the sale, with 10 ml. HBr and 22 g. Br. and evaping the solar of the sale, with 10 ml. HBr and 22 g. Br. and evaping the solar of the sale with 10 ml. HBr and 22 g. Br. and evaping the solar of the sale with 10 ml. HBr and 22 g. Br. and evaping the solar of the sale with 10 ml. HBr and 22 g. mother liquor contg. IV. HBr. Treating 15 g. VII in 150 ml. H₂O portionwise with 4.6 g. Zn dast, alkalizing, and steam disig, the mixt, gave Hl. h. 104-13° (picrale, m. 201°). From the mother liquers stripped of E(OH and alkalized under ice-cooling was liberated 13.6 g. (25%) IV, b. 104-6°; picrale, m. 224°. Refluxing 27 g. V 28 hrs. at 159° with 60 g. 80% HCO₃H and 81 g. HCO₃K, acidifying the mixt, with coned. HCl, removing the sepd. KCl, evapg. the solar to tryness, and dehydrating it by the distar with CoH, gave, after crystar, from barrowing the distar, with C-H, gave, after crystar, from barrowing the distar with 100 ml. E(OH, satg. the solar with HCl, and refluxing the mixt. 4 hrs. yielded 25% of the Bt ester of VI, bis 121.5-22° (picrate, m. 177.5-8.5°). Hydraside of VI, m. 144-6°; picrate of VI, (from the VI.HCl, and Na picrate), m. 161-3°. Transforming the pare picrate of the Et ester of VI to the HCl sait and removing the Cl ions gave the hydrats of VI, m. 172.5° (from tetrahydroforma and from 3:1 MesCO-RtOH). M. Hudlight

h Julia

STEPAK J.

Z/009/50/000/07/030/04.

E112/E453

AUTHOR:

Bretislav Doležel and Jiří Štěpek

TITLE:

Contribution to the Thermal and Optical Breakdown of

Polyvinyl Chloride and its Co-Polymers

PERIODICAL: Chemický Průmysl, 1960, Nr 7, pp 381-386

ABSTRACT:

The authors present a study of the effect of heat,

light and gaseous medium upon the breakdown of

polyvinyl chloride and its co-polymers with vinylidene

chloride and vinyl acetate, respectively.

degradation of the polymers is accompanied by a splitting

off of hydrochloric acid, discolouration, fission of

the macromolecules and their cross linkings.

mechanism and the ensuing effects of thermal and optical degradations are different. The initial stages of the thermal breakdown of polyvinyl chloride have not yet been fully elucidated, It has been established that it is accelerated by oxygen and polymerization catalysts.

question whether the split off HCl acts as autocatalyst, has not yet been answered satisfactorily. degradation causes an intense discolouration but very

little change of mechanical properties. The photochemical degradation on the other hand reduces the strength and

Card 1/5

Eli2/E453

Contribution to the Thermal and Optical Breakdown of Polyvinyl Chloride and its Co-Polymers

The main

flexibility and increases brittleness. process taking place during photochemical breakdown is an oxidation, the primary step of which is the splitting The authors point out that on off of hydrochloric acid. thermodynamic considerations, light of a wavelength of 2200 to 2300 Å has sufficient energy for the fission of The presence of carbonyl groups the C-Cl and C-H bonds. or other structural irregularities will shift the absorption to the visible part of the spectrum and thus accelerate photochemical breakdown of polyvinyl chloride. The authors practical and experimental contributions to the study of the problem were as follows: The thermal and photochemical degradation of emulsion and suspensionpolymerized vinyl chloride and its co-polymers with vinylidene chloride 90/10 and the co-polymer with vinyl acetate 87/13 in oxygen, ozone and nitrogen, were A: The thermal followed and compared experimentally. destruction was studied by following the course of splitting off of HCl, by determining the amount of

Card 2/5

Z/009/60/000/07/035/045 E112/E453

Contribution to the Thermal and Optical Breakdown of Polyvinyl Chloride and its Co-Polymers

insoluble compounds formed during the degradation, by measuring the change of viscosity and index of swelling. B: The photochemical degradation was measured on foils of the polymers placed in quartz tubes and <u>irradiated</u> with ultra violet light. The split-off HCl was absorbed in a caustic soda solution and determined by potentiometric titration with silver Procedure for the different determinations are given in details. The following results are given: A linear relationship exists between the amounts of splitoff HC1 from polyvinyl chloride and its co-polymers in an atmosphere of nitrogen, oxygen and ozone. atmosphere of oxygen and ozone, the breakdown of polyvinyl chloride is more rapid than under nitrogen. Suspension polyvinyl chloride is more liable to thermal breakdown than the emulsion-polymer. The speed of breakdown by heat of the co-polymers of vinyl chloride with vinylidene chloride is eighteen times greater than However, the breakdown of that of polyvinyl chloride.

Card 3/5

7. - 7/00/000/07/030/046 E112/E453

Contribution to the Thermal and Optical Breakdown of Polyvinyl Chloride and its Co-Polymers

the co-polymer of vinylchloride with vinyl acetate is considerably smaller and approaches that of the The speed of formation suspension-polyvinyl chloride. of insoluble fractions in an atmosphere of nitrogen is greater in the case of vinyl chloride-vinylidene chloride The relationship than of pure polyvinyl chloride. between amount of split-off hydrochloric acid and time of irradiation with ultraviolet light was found to be The resistance to linear with all tested polymers. photochemical degradation decreases in the order: Polyvinyl chloride, co-polymer from vinyl chloride and vinylidene chloride. The discolouration of the resins by ultra violet light is slower than during a thermal breakdown and is masked by the oxidation of conjugated double bonds, which in its turn leads to a discolouration. There are 11 figures and 17 references, 11 of which are English, 1 Czech, 3 Soviet and 2 German.

Card 4/5

Z/009/60/000/07/038/046 E112/E453

Contribution to the Thermal and Optical Breakdown of Polyvinyl Chloride and its Co-Polymers

ASSOCIATIONS: Výzkumný ústav ochrany materiálu, Praha

(Research Institute for the Protection of Materials, Prague) Vysoká škola chemicko-technologická, Praha (College of Technical Technology, Prague)

SUBMITTED: March 5, 1959

Card 5/5

KARACHUN, Aleksandr Afanas'yevich; STEPAKOV, Connadiy Andreyevich; PANKRASHOV, A.P., red.; GREYVER, I.K., tekhm. red.

[Mechanization of work at lumber landings]Mekhanizatsiia rabot na nizhnikh lesnykh skladakh. Petrozavodsk, Gos.izd-vo Kareliskoi ASSR, 1961. 94 p. (MIRA 15:9) (Karelia-Lumbering) (Karelia-Loading and unloading)

STEPAKOV, V.

Increase efficiency in the utilization of fixed production assets of enterprises. Uch. zap. Akad. obshchestv. nauk no.32:34-69 '58.

(Russia--Industries)

STEPAHOV, V. A.

USSR/Engineering Residual Stresses Tensile Tests

Mar 49

"The Emergence of Residual Stresses of the First Class Under Tension," A. A. Glikman, T. P. Sanfirova, V. A. Stepakov, Leningrad Polytech Inst, Lab Phys Metalworking, 9 pp

"Zhur Tekh Fiz" Vol XIX, No 3

Established emergence of residual stresses for carbon-steel samples under tension beyond the yield point by changing sample forms, simplifying testing method, and changing the plactic-deformation range. Confirmed conclusion obtained in previous work on the existence of thin, weakened surface layer. Submitted 25 Oct 48.

PA 38/49T85

STOPAMEK, J.

Development and results of the rationalizers' movement in the Ministry of Food industry and Bulk Purchase of Agricultural Products. p. 98.

TECHNIKA VYKUPU, MLYNARSTVI A PEKARSTVI. (Ministerstvo potravinarskeho prumyslu a vykupu zemedelskych vurobku a Sdruzeni mlynu a pekaren) Praha, Czechoslovakia, Vol. 5, no. 3, Mar. 1959.

Monthly List of East European Accessions (EFAT), LC Vol. 9, no. 2, Feb. 1960.

Uncl.

STUTAL, A.

"Experiences 'cquired in Examining Technical and Economic Standards." p. 129 (Strojirenstvi, Vol. 3, no. 2, Feb. 1953, Praha)

SO: Monthly List of East European Accessions, Vol. 3, no. 2, Library of Congress, Feb. 1954, Uncl.

STEPAN, J. (Kosice, KUNZ)

Improving rehabilitation by exercise according to physiological theory of I.P.Pavlov. Lek.obzor 3 no.9:534-536 1954.

 Z ortopedickej kliniky Lekarskej fakulty SU v Kosiciach. (EXERCISE THERAPY,

Pavlovian theory, importance in rehabil. in orthopedics) (REHABILITATION,

in orthopedics, Pavlovian theory, physicl. importance of exercise)

STEPAN I

Arthroses of the feet. Bratisl. lek. listy 34 no.12:1401-1403 Dec 54.

1. Z Kliniky pre choroby ortopedicke PLFUK v Kosiciach, predn. zast. prof. MUDr J.Stefan (FOOT, diseases arthrosis, diag.)

ŧ	STEPAN, J.; VOJTISEK O.; DOSTAL, C.; VITULOVA, V.	CSSR	
•	Research Institute for Rheumatic Diseases (Vyzkumny ustav chore Prague, director: Prof. Dr. F. Lenoch, Dec		
1	Prague, Pysiatricky Vestnik, No 1, 1963, pp 13-18	**	
	On the Late Reaction to Emogenous ACTH in Encumatic Patients		
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STEPAH, J.

Lipid compounds in cerebrospinal fluids of patients suffering from chronic schizophrenia, epilepsy and oligophrenia. Rev czech med 9 no. 2:126-132 163.

1. Rheumatological Research Institute, Prague.
Director: Prof. F. Lenoch, M.D.
(LIPID METABOLISM) (CEREBROSPINAL FLUIDS) (SCHIZOPHRENIA)
(EPILEPSY) (MENTAL DEFICIENCY) (CHEMISTRY, ANALYTICAL)

TESAR, J.; STEPAN, J.

Responsibility of the obstetrician in maternal death. Cesk. gyn. 28 no.1/2:114-117 F '63.

1. Katedra soud. lekarstvi KU v Praze, vedouci doc. dr. J. Tesar Vyzkumny ustav organizace zdravotnictvi v Praze, reditel dr. R. Palec.

(MATERNAL MORTALITY)

(PREGNANCY COMPLICATIONS)

GDR/General Problems of Pathology - Tumors. Metabolism.

U

Abs Jour : Ref Zhur Biol., No 6, 1959, 27369

Author

Ledinskiy, Quido; Stepan, Jan

Inst

Dearmont,

Title

: On Clinical-Biochemical Analysis of the Contents of

Cystic Tumors of Brain and Spinal Cord

Orig Pub

: Zbl. Neurochirurg., 1957, 17, No 6, 378-385

Abstract

: The contents of 11 cysts of brain and spinal cord tumors were studied with the aid of various chemical methods, electrophoresis on paper, spectrography and chromatography. In infratentorial cysts of the cerebellum, the coefficient A/G 2, in supratentorial 2. The lowest content of sterol esters coincided with that of N. In 3 cysts the content of Bi, Ba and Al was increases; in individual cases glucosamine (4 times), glucose (3 times), pentose (4 times) and maltose (1 time) were discovered. There is no relation between the chemical composition of

Card 1/2

STEPAH, J., dr.

Legal labor code for health protection. Reflections on the discussion of the labor code in the Czechoslovakian SSR. Cesk. zdrav. 11 nc. 3:101-104 163.

1. Vyzkumny ustav organizace zdravotnictvi, Praha. (INDUSTRIAL MEDICIME) (PUBLIC HEALTH)

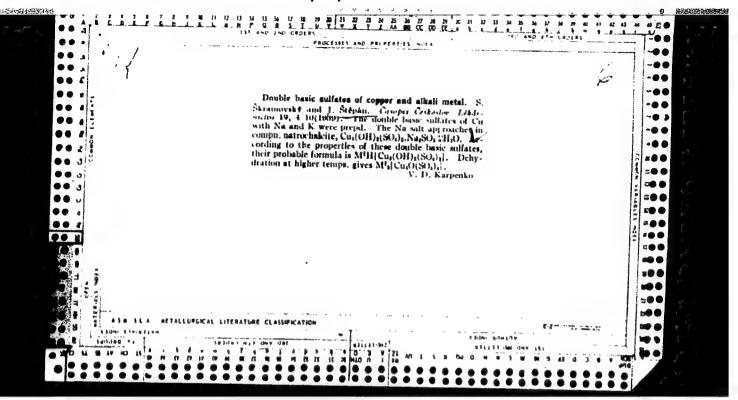
STEPANEK, J.; SAVRDA, K.; KRUMPHANZL, K.; ZAZVORKA, M., inz.

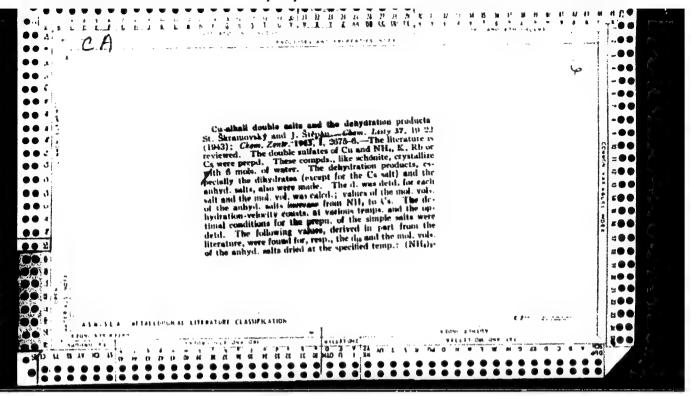
System of continous control and analysis of the basis weight of paper and paperboard. Sbor cel pap no.7: 269-286 '62.

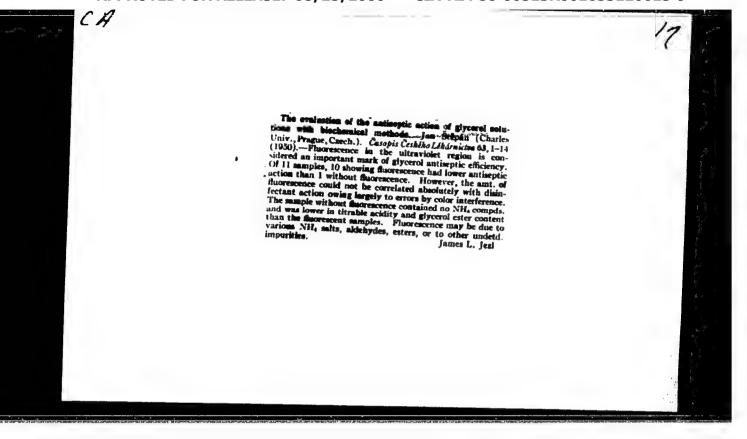
STEPANEK, J.

Shielding of important organs in telecobalt therapy. Cesk. rentgen. 18 no.1:35-39 Ja*64.

1. Radiologicke oddeleni OUNZ v Jihlave; vedouci: lekar MUDr. V. Maly.







STEPAN, J.

Essay on purity test for anesthetic ethyl ether. Cas.cesk.lek.Ved. priloha 63 no.9-12:306-324 Dec 1950. (CIML 20:9)

1. Of the Institute of Medical Chemistry of Charles University Branch in Hradec Kralove.

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STEPAN, J.

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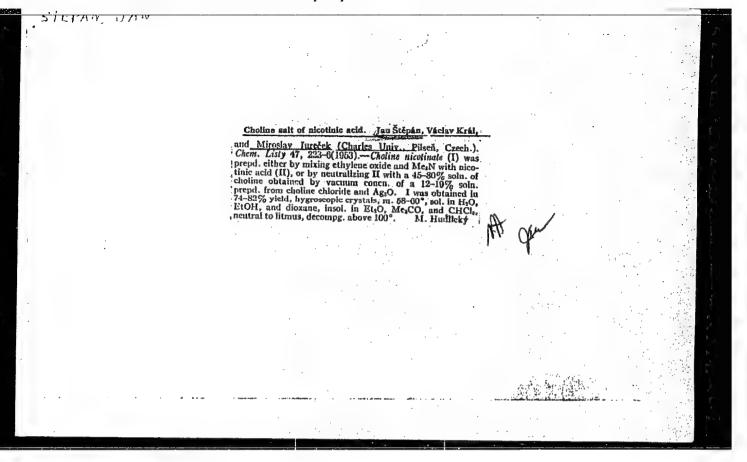
Significance of molecular structure. Cas.cesk.lek.Ved.priloha 63 no.9-12:324-329 Dec 1950. (CIML 20:9)

1. Of the Institute Of Medical Chemistry of Charles University Branch in Hradec Kralove.

STEPAN J., BEDEMA J.

Poznarsky k praci: Vliv acataldehydu, percaydu a korku na spotrebu etheru pri narkoes (J. Lenfeld, Lekarske listy, 6, 101, 1951). /Discussion on the article "Effect of aldehyde, percaide, and of steppers on the pollution of ether in anesathesia"/ Lek. Listy 6:10 15 May 51 p. 303-5.

l. Of the Surgical Clinic of the Medical Faculty of Charles University Branch in Hradec Krelove (Head--Prof. Jan Bedrna, M.D.) and of the Institute of Medical Chemistry of Charles University Branch in Hradec Kralove (Head-Jan Stepan, M.D.). CLIL Vol. 20, No. 10 Oct 1951



Synthesis of indandione clarification preparations. Cas. lek. cesk. 92 no.8:208-210 20 Feb 1953. (CIML 24:3)

1. Of the Institute of Medical Chemistry of Charles University Branch in Pilsen.

STRFAN, Jan; FRIDRICH, Eduard; MASOPUST, Jaroslav; MUSIL, Frantisek

Mineral metabolism in guinea pigs. Cas. lek. cesk. 93 no.22-23: 610-616 4 June 54.

1. Z Ustavu lekarske chemie university Karlovy, pobocky v Plasni a Zkusebni a kontrolni sekse Vyskumneho ustavu organickych synthes Pardubice-Rybitvi.

(ELECTROLYTES, metabolism, in guinea pigs)

STEPAN, J., Kral, V., JURECEK, M.

CZECHOSLOVAKTA

Ueber Cholinnicotinsaureprodukte
From the Institute for Medical Chemistry of Charles University, Plzen and the
chair for analytical chemistry of the Ehemical-Technological University in Pardubice.

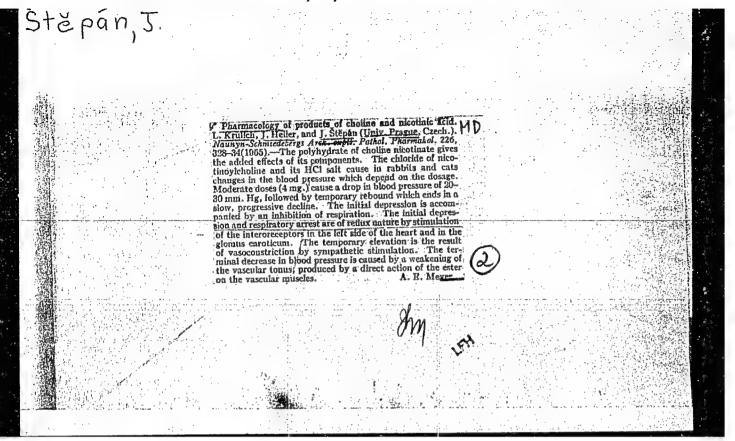
SO: Die Pharmazie, Dec 1955, Unclassified.

CZECII

The choling enter of alcotinic acid. J. Štěpán; V. Král, and M. Jurceek (Karlovy Univ., Place Crecht). Cham. Lity 49, Tat-3(1955).—Refluxing 123.1 g. sticolinic acid (I) with 4 times the arm. of SOCI-0.5-1 hr., evapy, the soin. in vacuo to 250 ml., adding 139.0 g. HOCH-CH-NMerCl (II), and crystg. the solidified mixt. from 96% BiOH gave. 40% 3-C.H.N.Co.CH-CH-NMerCl.HCl (III), m. 200-3°, resistant to hydrolysis by refluxing 6 hrs. with dil. alkalies or 3 hrs. with dil. HCl. Treatment of 3 g. III with Ag.O in H-10 gave I (free and as Cu sait), and an addn. compd. of II with 6 HgCls. Dipicrate of 3-C.H.N.Co.CH-CH-NMer-4 (Callung). m. 164-5°; diperchlorate, m. 214.5-186 (from H₂O); trinercuriheptackloride (dihydrate). m. 170-1° (from 50% BtOH); dichoroaurate), m. 220-1° (from 50% BtOH); dichoroaurate), m. 220-1° (from 50% BtOH); dichoroaurate), m. 220-1° (from 50% BtOH). Paper chromatography of Whatman paper no. 1 at 18° in mixts. 4:2:1 BuOH-PrOH-H₂O, gave the following R, values: for I 0.35, 0.51, 0.76; for II, 0.14, 0.33, 0.27; for III 0.09, 0.34, 0.18. M. Hudlicky

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CIA-RDP86-00513R001653120013-9"



STEPAN, J.; VORTEL, V.; FRIDRICH, E.

Aluminum in guinea pig organs in normal & pathological conditions. Cas. lek. cesk. 97 no.6-7:214-217 14 Feb 58.

1. Ustav lekarske chemie university Karlovy, pobocky v Plzni (prednosta doc. J. Stepan) Ustav pathologicke anatomie VIA J. Ev. P. v Hradci Kralove (prednosta prof. Fingerland) Vyzkumny ustav organickych synthes Pardubice Rybitvi.

(PNEUMONIA, metab.
aluminum in guinea pigs (Cz))
(PERICARDITIS, metab.
same)
(ALUMINUM, metab.
in pericarditis & pneumonia in guinea pig (Cz))

STEPAN, Jan; VORTEL, Vladimir

Contribution to a possibility of damages of the organism during therapy with PAS and other tuberculostic drugs. Cas.lek.cesk. 99 no.3/4:111-117 22 Ja '60.

1. Ustav lekarske chemie lekarske fakulty KU v Plzni, prednosta doc.dr. Jan Stepan. Ustav patologicke anatomie a histologie lekarske fakulty KU v Hradci Kralove, prednosta prof.dr. A. Fingerland.

(PARAAMINOSALICYLIC ACID eff.inj.)
(ANTITUBERCULAR AGENTS eff.inj.)

STEPAN, J., dr.

Development of the teaching of theory and organization of public health and its influence on Czechoslovakian legislation. Cesk. zdrav. 11 no.7/8:302-308 '63.

1. Vyzkumny ustav organizace zdravotnictvi v Praze.
(PUBLIC HEALTH ADMINISTRATION) (LEGISLATION)

STEPAN, J.; VOJTISEK, O.

21st postgraduate medical course in Karlovy Vary. Cas.lek. cesk. 103 no.8:218-220 21 F'64

1. Vyzkumny ustav chorob revmatiskych v Praze; reditel: prof.dr. F.Lenoch.

CZECHOSLOVAKIA

VECEREK, B.; KRAML, J.; PELICHOVA, H.; STEPAN, J.; CHMELAR, M.; STIPEK, S.

1. Institute for Medical and Forensic Chemistry, Faculty of General Medicine, Karlovy University, Prague - (for all).

Prague, Collection of Czechoslovak Chemical Communications, No 11, November 1965, pp 3964-3968.

"Phosphatases. Part 2: Changes in the composition of human intestinal and kidney alkaline phosphatase during purification."

(6)

S/035/62/000/011/075/079 A001/A101

AUTHORS:

Štěpán, Jaromír, Válka, Oldřich

TITLE:

Determination of point coordinates by transformation

PERIODICAL:

Referativnyy zhurnal, Astronomiya i Geodeziya, no. 11, 1962, 30, abstract 116214 ("Geod. a kartogr. obzor", 1962, v. 8, no. 6,

107 - 112, Czech)

TEXT: If the extension of a control network is conducted on the basis of two known points, the coordinates of the points being determined are calculated by the formulae:

$$Y = ay_r + bx_r + Y_b,$$

$$X = ax_r - by_r + X_o,$$

·where

$$a = \frac{Y_r y_r + X_r X_r}{y_r^2 + x_r^2}, b = \frac{Y_r x_r - X_r y_r}{y_r^2 + x_r^2}, Y_r = Y - Y_0$$

Card 1/4

S/035/62/000/011/075/079 A001/A101

Determination of point coordinates by transformation

$$X_r = X - X_o, y_r = y - y_o, x_r = x - x_o,$$

 $Y_o = 1/2 (Y_1 + Y_2), X_o = 1/2 (X_1 + X_2),$
 $y_o = 1/2 (y_1 + y_2), x_o = 1/2 (x_1 + x_2).$

Quantities Y_r , X_r , y_r , x_r are coordinates reduced to the common origin of the main and auxiliary systems (Y_o, X_o, y_o, x_o) . The following formulae serve as a control:

$$[Y] = a [y_r] + b [x_r] + n \cdot Y_o,$$

$$[X] = a [x_r] - b [y_r] + n \cdot X_o,$$

where n is number of transformed points. This method can be applied also for the solution of the Hansen problem. In determining coordinates of the points of a triangle chain from coordinates of the two given points, the rms error in position

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of vertices of the first triangle is calculated by the formula:

$$m_{xy} = \pm S \frac{m c}{p^m}$$
,

where S is distance between the known point and that being determined, motion is rms error in angle measurement, ρ is radian. The rms errors in positions of vertices of the subsequent triangles are equal to $M_{yx} = M_{yx} \sqrt{n}$, where n is the ordinal number of triangle. If there are more than two known points, transformation coefficients are calculated by the formulae:

$$\beta = \frac{\lceil ({}^{\mathbf{Y}}_{\mathbf{r}} - {}^{\mathbf{y}}_{\mathbf{r}}), {}^{\mathbf{y}}_{\mathbf{r}} \rceil + \lceil ({}^{\mathbf{X}}_{\mathbf{r}} - {}^{\mathbf{x}}_{\mathbf{r}}), {}^{\mathbf{x}}_{\mathbf{r}} \rceil}{\lceil {}^{\mathbf{x}}_{\mathbf{r}} \rceil + \lceil {}^{\mathbf{y}}_{\mathbf{r}} \rceil}.$$

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Determination of point coordinates by transformation

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The following formulae are recommended for calculating coordinates:

$$\begin{aligned} y_{i+1}' &= y_i' + (1 + \beta) \cdot \Delta y_{i,(i+1)} + \alpha \Delta x_{i,(i+1)}, \\ x_{i+1}' &= x_i' + (1 + \beta) \Delta x_{i,(i+1)} - \alpha \Delta y_i, (i+1). \end{aligned}$$

It is noted that the application of the proposed method for calculating coordinates of points being determined, reduces the number of measurements at expense of some increase of calculations, which is not burdensome at the present state of calculation technique. There are 6 references.

N. Modrinskiy

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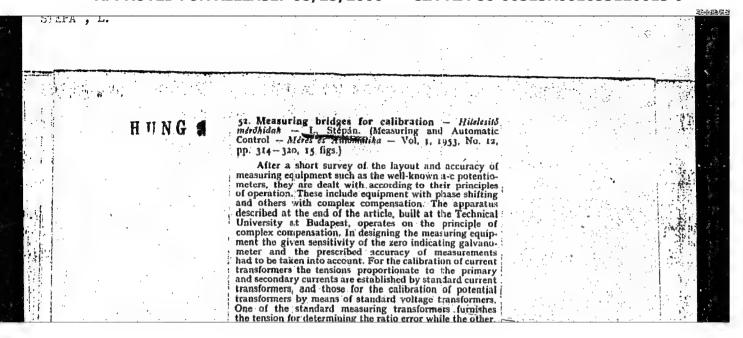
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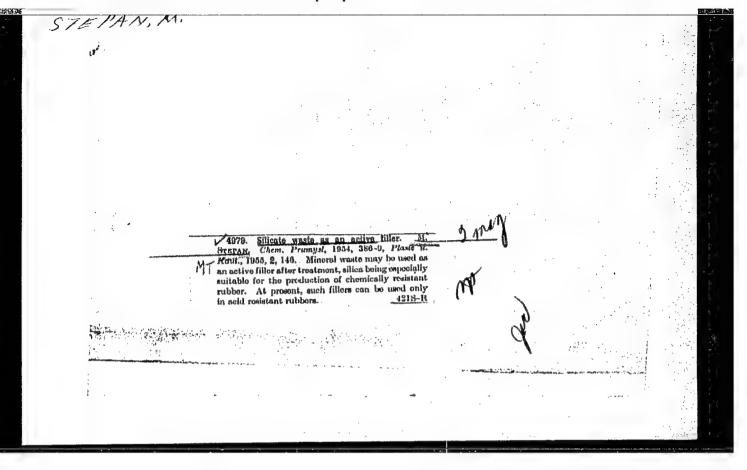
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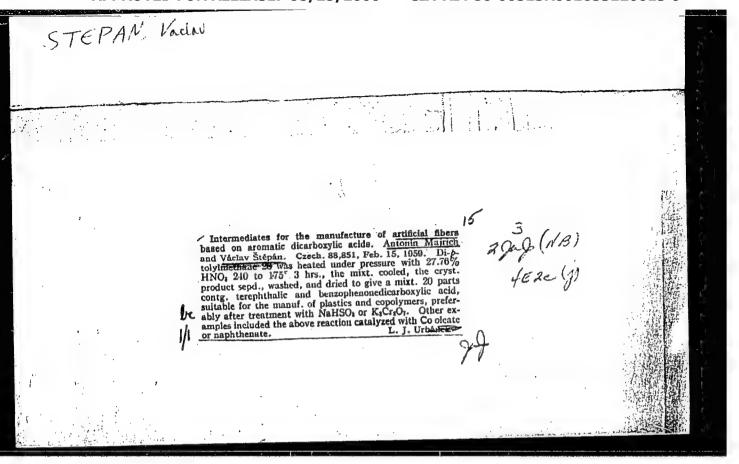
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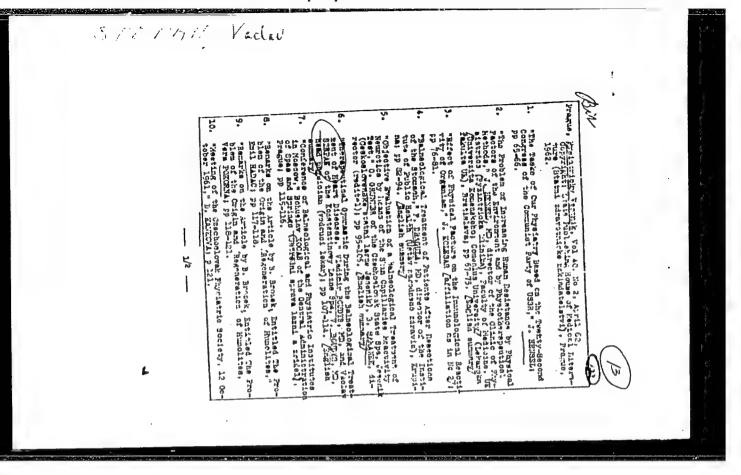
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